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RESULTS OF DOUBLE-STAR MEASURES, MADE AT THE LICK OBSERVATORY.

By R. G. Aitken.

Below are given the results of my measures of double-stars during the past year. The details of the measures will be found in the *Astronomische Nachrichten*.

Unless otherwise indicated in the notes, each result given is the mean of three nights' measures, usually with the twelve-inch equatorial, though some of the closer pairs were measured on one night with the thirty-six-inch.

No.	Double Star.	R. A. 1880.	Decl. 1880.	Position Angle.	Distance.	Magnitudes.	1895 +	Notes.
		h. m. s.	° ′	°	″			
1	β 391	0 3 14	−28 39	271.0	0.93	6.5 - 6.5	.83	
2	H 1964	0 19 32	−19 29	115.7	6.60	7 - 10	.93	
3	H 1968, AB	0 21 33	−17 4	106.7	2.81	7 - 10½	.93	
	AC			122.2	93.55	- 11½	.93	
4	Σ 35	0 25 27	− 2 43	266.8	8.55	9+ - 9+	.92	
5	Σ 42 AC	0 29 38	+29 21	199.0	38.17	8 - 10+	.96	
6	Σ 44	0 31 56	+40 20	266.3	9.52	8+ - 9+	1.04	
7	Σ 45	0 32 7	+46 18	88.0	11.79	7 - 10	1.04	
8	OΣ 18 AB	0 36 11	+ 3 31	129.2	1.15	7+ - 9+	1.45	
	AC			269.2	42.99	- 12+	1.45	
9	Σ 53 rej.	0 37 18	− 1 33	335.0	26.54	8+ - 10	1.11	
10	Σ 63	0 43 56	+11 11	227.6	17.12	8+ - 11+	1.07	
11	Σ 69	0 47 51	+83 2	13.5	23.41	8+ - 9+	0.96	
12	H 1057	0 50 6	+37 51	122.0	36.69	4 - 11+	1.04	*μ Andromedæ.*
13	H 1068	0 58 44	+14 18	262.9	55.24	6 - 11+	1.13	*72 Piscium.*
14	H 634	1 4 36	+ 8 55	266.5	37.41	6+ - 11	1.13	
15	β 1029 BC	1 7 27	+ 6 56	241.5	0.97	5 - 13	1.74	*ζ Piscium.*
	AB = Σ100			63.5	23.72	4 - 5	1.73	2 nights.
16	H 2061	1 30 2	−18 8	321.0	65.59	7+ - 9+	1.13	
17	Σ 142	1 33 28	+14 39	339.7	15.56	8+ - 8+	1.08	
18	Σ 143	1 33 32	+33 44	319.2	35.62	7+ - 9	1.04	
19	Σ 149	1 37 24	+39 21	95.7	1.11	8+ - 9+	1.10	
20	Σ 197	1 53 59	+34 43	232.3	24.89	7+ - 8+	1.05	
21	Σ 357	3 2 34	−13 3	295.2	7.96	8+ - 10+	1.17	4 nights.
22	Σ 358	3 2 44	− 4 9	347.9	15.42	8+ - 11+	1.16	
23	Σ 343	3 4 38	+83 37	324.8	27.09	8+ - 9	1.56	
24	H 663	3 6 37	− 1 39	249.8	4.60	6 - 11	1.19	2 nights. *94 Ceti*
25	H 1133	3 8 35	+69 19	202.5	30.58	6 - 12	1.35	
26	Σ 418	3 30 52	+75 0	63.3	19.08	8 - 9	1.35	2 nights.
27	Σ 436	3 35 11	−13 0	235.5	36.13	7 - 8	1.14	
28	OΣ 65	3 43 6	+25 13	198.1	0.72	6.5 - 7	1.44	4 nights.
29	Σ 475	3 52 3	− 7 28	19.2	7.39	8+ - 10	1.14	
30	Σ 486	4 0 42	+79 11	341.2	9.03	9+ - 10+	1.45	

No.	Double Star.	R. A. 1880.	Deel. 1880.	Position Angle.	Distance.	Magnitude.	1895 +	Notes.
		h. m. s.	° ′	°	″			
31	OΣ 74	4 5 41	+ 9 21	294.2	0.33	8 - 8+	1.72	36-inch.
32	Σ 505	4 6 41	+62 17	115.7	9.17	8+ - 11	1.71	
33	β 547	4 7 25	+ 8 58	353.4	0.91	5½ - 9	1.70	4 nights.
34	HVI 101	4 18 33	+17 38	232.8	77.41	4.0 - 9	1.16	δ *Tauri.*
35	H 3664	4 29 56	—25 17	192.1	21.61	7+ - 10	1.16	
36	Σ 596	4 40 15	—12 10	288.1	10.19	8 - 10	1.16	
37	Σ 620	4 51 32	+13 46	231.2	3.64	8+ - 9	1.16	
38	Σ 634	5 2 47	+79 5	12.3	14.75	5 - 8+	1.27	
39	Σ 629	5 4 4	+83 14	2.0	15.27	8 - 11	1.27	
40	Σ 651	5 4 14	— 7 13	47.4	19.55	8 - 10	1.15	2 nights.
41	OΣ 103	5 10 17	+33 14	54.6	3.80	5 - 11+	1.31	*16 Aurigæ.*
42	OΣ 104	5 14 12	+46 54	189.2	17.53	7+ - 11	1.29	
43	Σ 704	5 20 48	+69 34	12.8	21.58	7+ - 9	1.30	
44	Σ 736	5 28 36	+41 45	350.2	2.58	7+ - 8+	1.26	2 nights.
45	Σ 770	5 34 30	+19 9	334.2	1.20	8+ - 10	1.18	
46	Σ 771	5 34 41	+19 31	234.7	24.12	9 - 9	1.18	
47	Σ 1455 A & BC	10 39 11	+86 24	246.0	33.75	8 - 9+	1.43	
	BC			348.6	1.95	10 - 10	1.43	
48	S 615	10 42 18	—14 1	1.1	86.34	9 - 10	1.43	2 nights.
49	Σ 1471	10 43 0	+80 26	0.1	2.06	9 - 9	1.49	
50	β 915	10 43 13	+24 55	231.2	1.26	9 - 9	1.52	2 nights.
51	Σ 1554	11 29 55	+13 31	252.0	0.95	8 - 8+	1.50	4 nights.
52	Σ 1555	11 29 59	+28 27	344.0	0.60	6+ - 6+	1.44	
53	Σ 1561	11 32 29	+45 46	259.6	10.03	6+ - 7+	1.40	
54	OΣ 239 rej.	11 37 59	+25 53	20.6	37.78	5½ - 10	1.40	
55	β 795 AB	11 53 51	+71 20	328.0	14.39	8 - 12+	1.43	
	CD			114.0	6.25	8 - 12	1.43	
56	β 920	12 9 34	—22 41	244.0	0.84	6+ - 8	1.52	1 night.
57	Σ 1621	12 9 54	+ 6 19	136.2	2.54	9 - 10	1.45	
58	β 796	12 11 19	+ 7 16	260.0	0.66	8 - 9	1.52	
59	S 643	12 47 40	—17 23	294.5	23.40	8 - 9	1.43	
60	H 1222	12 47 40	+47 26	Star	single		1.47	36-in. 1 night.
61	β 341	12 57 19	—19 56	307.9	0.78	6+ - 6+	1.54	2 nights.
62	Σ 1715	12 58 9	+20 2	229.1	7.26	8+ - 9+	1.48	
63	β 799	13 1 7	+73 40	245.3	0.83	7 - 8+	1.71	
64	OΣ 261	13 6 4	+32 43	347.2	1.61	7 - 7+	1.48	
65	β 221	13 6 54	—14 49	45.6	1.34	8 - 9	1.49	
66	β 222	13 10 55	—20 54	14.8	1.51	8 - 9	1.48	
67	H 529	13 13 59	+35 47	120.4	17.30	9 - 10	1.51	
68	Ho. 260	13 18 0	+29 51	314.7	0.80	8+ - 8+	1.48	
69	β 113	13 23 9	+12 6	203.8	1.32	8 - 10	1.50	
70	OΣ 269	13 27 26	+35 32	214.1	0.4	6½ - 7	1.53	36-in. 2 nights.
71	Σ 1757	13 28 9	+ 0 18	72.4	2.50	8 - 9	1.43	
72	Σ 1761	13 29 2	+72 20	71.6	20.38	8½ - 9	1.64	
73	β 937	13 51 52	+35 1	102.8	0.88	8 - 8+	1.49	
74	OΣ 277	14 7 6	+29 17	354.6	0.81	8 - 8	1.49	

No.	Double Star.	R. A. 1880.	Decl. 1880.	Position Angle.	Distance.	Magnitude.	1895 +	Notes.
		h. m. s	° ′	°	″			
75	Σ 1816	14 8 36	+29 40	79.0	1.66	7+ - 7+	1.49	2 nights.
76	β 414	14 34 42	—30 25	346.5	0.90	6+ - 8	1.49	4 nights.
77	β 31	14 46 59	+19 13	192.1	1.57	8+ - 10	1.46	
78	β 618 A & BC	15 5 23	—19 20	111.0	58.23	5 - 10	1.44	*i Libræ.* 2 nts.
	BC			19.1	1.68	10 - 10	1.46	4 "
79	Σ 1950	15 24 50	+25 55	90.2	3.23	7 - 9	1.62	
80	β 945	15 26 9	+57 51	30.8	15.68	6+ - 12	1.48	
81	OΣ 297	15 29 40	+25 25	142.8	5.55	7½ - 11½	1.51	
82	β 620	15 38 54	—27 41	170.2	0.72	7 - 7+	1.49	1 night.
83	Σ 1969	15 39 1	+60 22	49.1	0.80	8 - 9	1.64	
84	Σ 2026	16 10 5	+ 7 41	267.7	0.71	8+ - 9	1.53	
85	A.G.Berlin, 5594	16 18 46	+20 40	112.4	5.06	7 - 10+	1.47	A new pair.
86	OΣ 311	16 22 33	+21 10	198.6	7.12	7½ - 10	1.47	
87	β 416	17 10 47	—34 51	314.8	1.45	6 - 8	1.44	*B.A.C. 5825.*
88	Σ 2272	17 59 23	+ 2 33	291.3	2.40	3 - 6	1.51	*70 Ophiuchi.*
89	OΣ 342	18 1 42	+ 9 33	Star	round		1.50	3 nights. 36-in.
90	β826	18 2 5	+ 9 45	331.5	0.71	9½ - 9½	1.70	36-inch.
91	AC 15	18 2 26	+30 33	310.3	0.84	6 - 10½	1.70	4 nights. 36-in. *99 Herculis.*
92	Σ 2281	18 3 36	+ 3 58	231.5	0.19	6 - 7	1.70	*73 Ophiuchi.* 2 nights. 36-in.
93	Σ 2294	18 8 25	+ 0 9	94.2	0.16	7+ - 7+	1.64	36-inch.
94	β 760 AB	18 9 31	—36 48	101.2	3.65	3+ - 11+	1.46	*η Sagittarii.*
	AC			276.2	33.34	3+ - 13	1.48	2 nights. 36-in.
	AD			303.8	93.14	3+ - 9+	1.47	
95	Σ 2400 AB	18 43 32	+16 7	184.2	2.17	8 - 11	1.54	36-inch.
	AC			188.3	3.15	8 - 10	1.54	36-inch.
	BC			197.2	0.94	11 - 10	1.54	36-inch.
96	β 648	18 52 30	+32 45	231.5	1.34	6 - 9+	1.49	
97	Σ 2434 AB	18 56 34	— 0 53	126 3	23.59	8 - 8+	1.49	
	BC			53.8	1.12	8+ - 10	1.49	
98	HN 129	18 57 0	—23 5	307.7	8.14	7 - 8+	1.62	1 night. 36-in.
99	HN 126	18 57 10	—21 43	317.5	0.44	7 - 8+	1.73	2 nights. 36-in.
100	Σ 2673–74 AB	20 17 6	+12 57	330.5	2.64	8 - 9+	0.85	
	CD			359.8	15.95	8 - 11	0.85	
	AC			103.6	75.65		0.85	
101	α *Cygni*	20 37 20	+44 51	106.6	75.72	- 11	0.92	
102	OΣ 413	20 42 44	+36 3	60.7	0.62	5 - 6	1.54	*λ Cygni.*
103	A.G.C. 13	21 10 0	+37 32	333.6	0.79	4 - 9+	1.55	*τ Cygni.*
104	β 989	21 39 12	+25 6	93.7	0.09	5 - 5+	1.68	4 nights. 36-in *κ Pegasi.*
105	β 172	22 17 52	— 5 27	7.3	0.57	5½ - 5½	0.83	*51 Aquarii.*
106	OΣ 536	22 52 29	+ 8 43	166.8	0.21	7.4 - 7.5	1.73	*B.A.C. 8001.* 36-inch.
107	Σ 2912	22 23 54	+ 3 49	294.1	0.28	6 - 7	1.66	*37 Pegasi.* 36-inch.
108	β 1154	23 53 12	+74 10	308.0	0.77	8 - 8+	0.91	